Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_

**Periodic Table Practice**

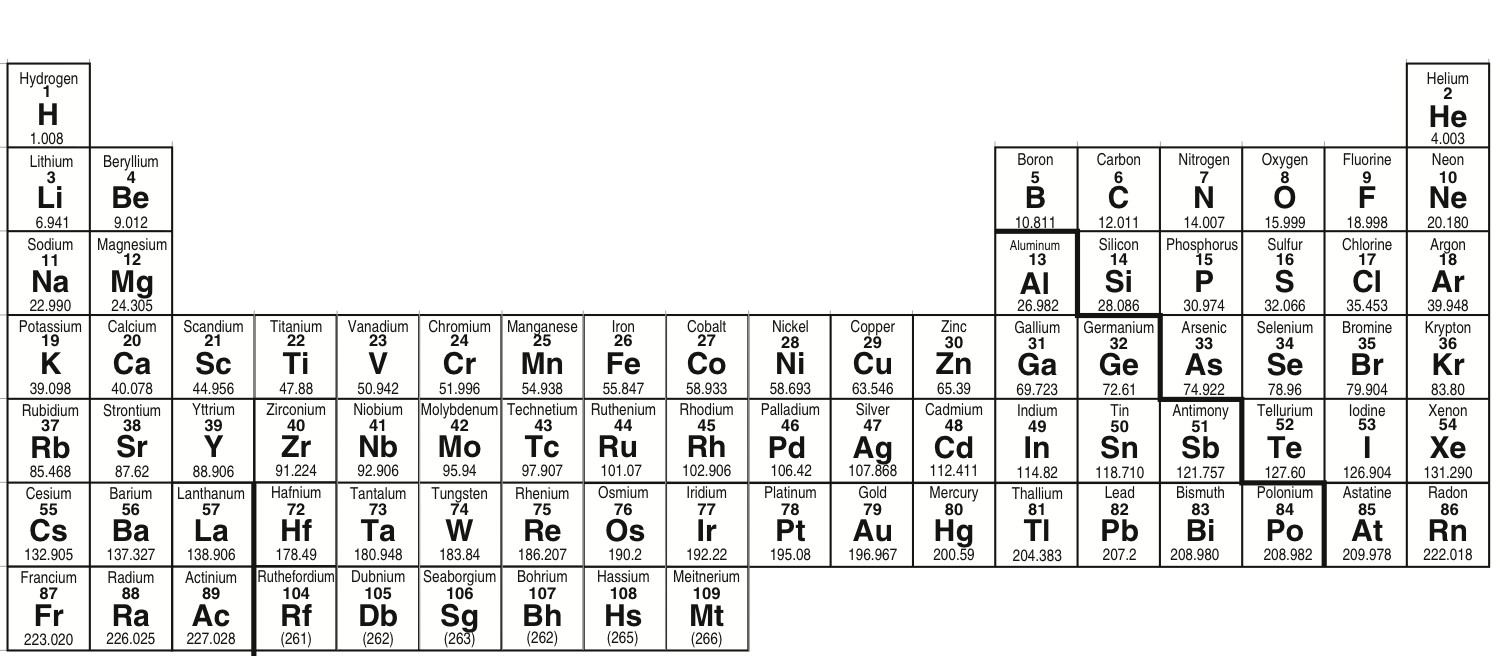
1. Which color are the metals on the periodic table below? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. Which color are the nonmetals on the periodic table below? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. Which color are the metalloids on the periodic table below? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. Label the following periodic families on the periodic table below.

* Alkaline earth metals
* Transition metals
* Halogens
* Alkali metals
* Noble gases



5. Write the number of each property in the appropriate box below. Please write the numbers in each box in order (much easier for me to grade).

1. Bad conductor of heat and electricity
2. Brittle
3. Can be various states at room temperature
4. Do not react with water and acid
5. Ductile
6. Dull
7. Good conductor of heat and electricity
8. High melting point
9. Low melting point
10. Malleable
11. Mix of metal and nonmetal properties
12. React with water and acid
13. Rough
14. Semi-conductors
15. Shiny
16. Smooth
17. Typically gas at room temperature
18. Typically solid at room temperature

|  |  |  |
| --- | --- | --- |
| **Metals** | **Nonmetals** | **Metalloids** |
|  |  |  |

6. Determine whether the following elements are metals, nonmetals, or metalloids. Then list the element’s periodic family (alkali metal, halogen, noble gas, alkaline earth metal, or transition metal), group, and period.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Element** | **Metal, Nonmetal, or Metalloid** | **Periodic Family** | **Group** | **Period** |
| Calcium |  |  |  |  |
| Chromium |  |  |  |  |
| Krypton |  |  |  |  |
| Francium |  |  |  |  |

7. Jamal is looking at sneakers at Foot Locker when he discovers a very reactive, malleable, and soft element being stored in a jar of oil. Which periodic family does this element belong to?

8. Bryant is playing soccer at the neighborhood soccer field when he comes across a colorless, odorless gas. When he tries to mix the gas with other elements, it refuses to react. Which periodic family does the element belong to?

9. JaNei decides to mix a certain reactive nonmetal with other substances to learn more about its properties. When she combines this nonmetal with an alkali metal, the two elements combine to form a salt. Which periodic family does the element belong to?

10. Ajania digs a hole to the center of the Earth, where she collects a sample of an element that has the ability to withstand the fires of the earth’s core. This element is also present in many living organisms and is reactive. Which periodic family does it belong to?

11. Freud decides to buy new earrings from the mall. He chooses to buy earrings made out of an element that is shiny, malleable, and located in the D block of the periodic table. Which periodic family does the element belong to?

12. Zoe decides to pull a prank on Mia so she asks her to hold a bucket of water. When Zoe adds a reactive, soft metal to the water, there is a huge explosion. Which periodic family does the element belong to?